DATA VISUALIZATION FINAL PROJECT

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Topic and data introduction

Topic: Gender inequalities in Europe

Data: We used 3 different datasets:

- 1. Eurostat, Positions held by women in senior management positions
 - Share of **female board members** in the largest publicly listed companies
 - **35** European countries
 - Data is from 2003 to 2022
 - The original data comes from EIGE



Topic and data introduction (cont.)

2. Eurostat, Gender overall earnings gap

- Synthetic gender-gap indicator: percentage of extra mean earnings that men obtain with respect to women
- 31 European countries
- Data is from 2018
- Data is the sum of 3 of the EU-LFS main indicators

3. Istat, Violenza sulle donne

- Diffusion of several stereotypes, considering the percentage of people who agree with them
- **Italian** population aged 18-74
- Data is from 2018



Addressed questions

1. Are there inequalities in women's representation in **leadership positions**?

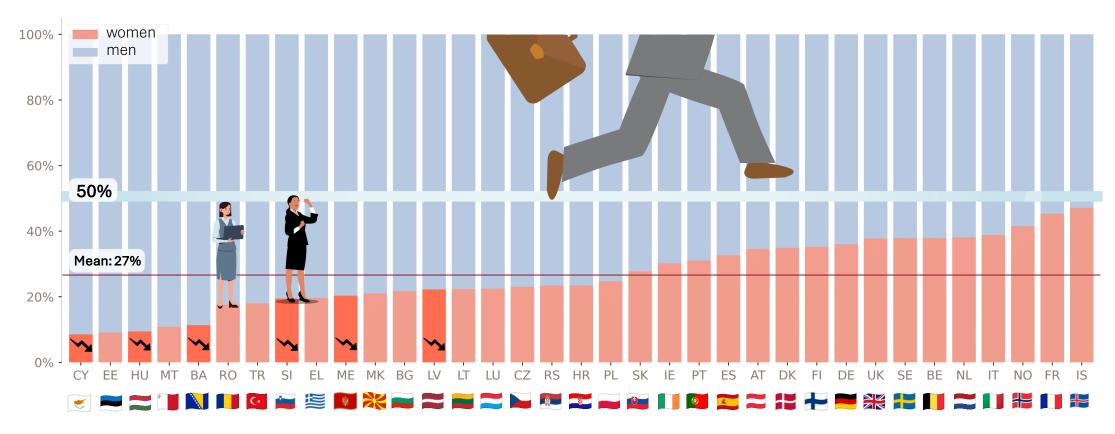
2. Are gender inequalities reflected in women's retribution?

3. In Italy, are gender inequalities supported by any **common beliefs**? What are the differences among the population?



Europe does not break the "glass ceiling"

In 2021, the percentage of **senior management positions** held by women was **below 50%** for all the 35 European countries listed



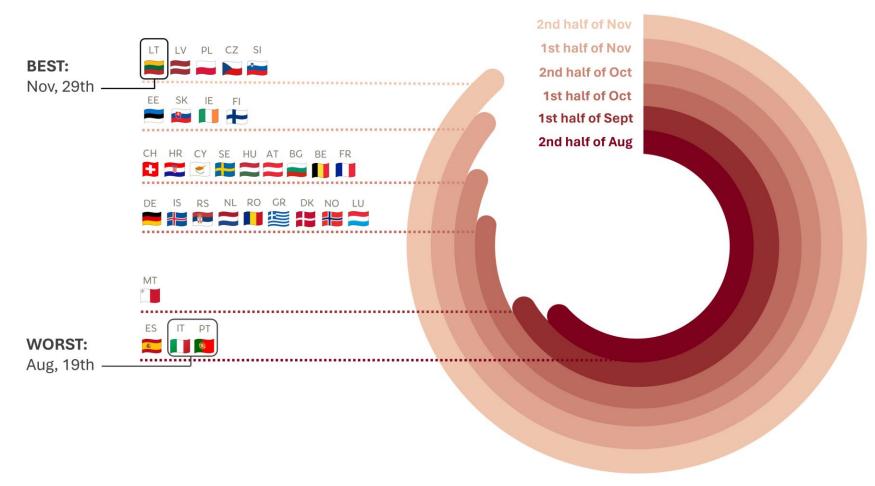
The denotes a country whose value decreased from 2018

Data attributes and corresponding visual channels

Data attribute	Attribute type	Visual channel
Percentage of female board members	Quantitative	Length of bars on Y axis (sorted in ascending order)
Gender	Categorical	Color of bars
European countries	Categorical	Country flag emoji and ISO2 country code on X axis (sorted by percentage of female board members)
Situation of a country: has improved/got worse with respect to 2018	Categorical	Color of bars and glyphs (arrow on bars)

When men can clock out while women keep working

On which time of the year can a man stop working and still obtain the **same salary** as a woman working throughout the entire year?



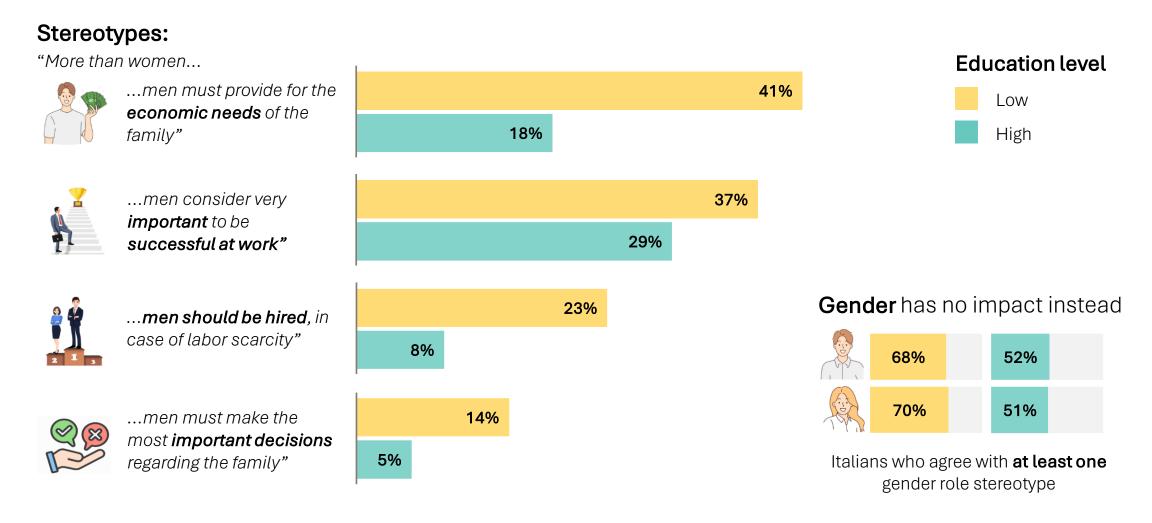
Source: Eurostat, Gender overall earnings gap

Data attributes and corresponding visual channels

Data attribute	Attribute type	Visual channel
Time of year	Ordinal	Length of semicircumferences. Entire year = full circumference
European countries	Categorical	Country flag emoji and ISO2 country code (sorted by time of year)
Countries with the worst situation in terms of time of year	Ordinal	Colors of semicircumferences

Italy: the higher the education, the lower the stereotypes

The percentage of Italians who agree with a **gender role stereotype** varies with the education level



Source: Istat, Violenzasulledonne. Stat

Data attributes and corresponding visual channels

Data attribute	Attribute type	Visual channel		
Bigger graph				
Different stereotypes	Categorical	Labels and icons on Y axis (sorted by low education)		
Percentage of people who agree with each stereotype	Quantitative	Length of bars on X axis and labels inside bars		
Smaller graph				
Gender of respondents	Categorical	Icons on Y axis		
Percentage of people who agree with at least one stereotype	Quantitative	Length of bars and labels inside bars		
Both graphs				
Education level of respondents	Categorical	Color of bars		

Individual contribution

Main contributor for each visualization:

- Visualization on glass ceiling in Europe: Sara Cocomello
- Visualization on gender gap as working days: Sara Candussio
- Visualization on gender role stereotypes: Silvia Imeneo



For each visualization, the single student has been working on:

- Data extraction and analysis
- Preparation of the visualization
- Description of the data attributes and the corresponding visual channels

Feedback and suggestions on each visualization have been shared by **all groupmates.** Final aesthetic refinements have been done by the three students together.